

CCNY Nuclear Research Fellowship Program

EXECUTIVE SUMMARY:

Financial support is requested from the NRC Scholarship and Fellowship Education Grant program for the “**CCNY Nuclear Research Fellowship Program**” at the City College of New York (CCNY) which is the flagship campus of the City University of New York (CUNY). As CCNY is a minority and a Hispanic Serving Institution; the proposed fellowship program will provide minority students with an opportunity to pursue graduate studies in nuclear engineering and gain the knowledge and skills needed to enter careers in the nuclear power industry. A total funding of \$400,000 over four years is requested to provide annually four graduate fellowships to qualified Ph.D. students for four years. The annual stipend for each student will be \$25,000, and the University contributions of \$128,000 over four years will be used to provide full support for tuition fees and health insurance coverage. The students will conduct numerical and experimental investigations of thermal-hydraulics problems relevant to advanced simulations of

Light Water Reactors in the Nuclear Thermal-hydraulics and Safety Research Laboratory at the Energy Institute located in the Grove School of Engineering at CCNY. The Energy Institute is participating in the DOE HUB project, *CASL*, and will conduct research on the development of advanced thermal-hydraulic models needed for a virtual reactor.

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